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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/644,720	08/20/2003	Jeffrey C. Hessenberger	066042-9398-01	6121	
23409	7590 06/06/2006		EXAM	EXAMINER	
MICHAEL BEST & FRIEDRICH, LLP 100 E WISCONSIN AVENUE			SELF, SHE	SELF, SHELLEY M	
MILWAUKEE, WI 53202			ART UNIT	PAPER NUMBER	
	,		3725		
			DATE MAILED: 06/06/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
		10/644,720	HESSENBERGER ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Shelley Self	3725	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address	
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Poperiod for reply is specified above, the maximum statutory period ver to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status				
1)⊠	Responsive to communication(s) filed on 29 M	arch 2006.		
2a)⊠	This action is <b>FINAL</b> . 2b) ☐ This	action is non-final.		
3)	Since this application is in condition for allowar			
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.	
Dispositi	ion of Claims			
4)⊠	Claim(s) 1-21 and 41-59 is/are pending in the	application.		
·	4a) Of the above claim(s) is/are withdraw	wn from consideration.		
5)🖂	Claim(s) <u>58</u> is/are allowed.			
·	Claim(s) <u>1-3,18-20,55,57 and 59</u> is/are rejected			
	Claim(s) <u>4-17,21,41-54 and 56</u> is/are objected			
8)	Claim(s) are subject to restriction and/o	r election requirement.		
Applicat	ion Papers			
9)□	The specification is objected to by the Examine	r.		
10)⊠	The drawing(s) filed on 20 August 2003 is/are:	a) ☐ accepted or b) ☒ objected	to by the Examiner.	
	Applicant may not request that any objection to the			
44)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex			•
•	•	diffilier. Note the attached Office	Action of form 1 10-102.	
•	under 35 U.S.C. § 119			
	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of:	priority under 35 U.S.C. § 119(a)	)-(d) or (f).	
	1. Certified copies of the priority document			
	2. Certified copies of the priority document			
	3. Copies of the certified copies of the prior		ed in this National Stage	
* (	application from the International Bureau See the attached detailed Office action for a list	• • • • • • • • • • • • • • • • • • • •	ah.	
`	see the attached detailed Office action for a list	or the defining copies not receive		
Attachmer		" <u> </u>	(DTO 442)	
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D		
3) Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date		Patent Application (PTO-152)	

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#### **DETAILED ACTION**

### Response to Amendment

The amendment filed on Marcy 29, 2006 has been considered but is ineffective to overcome the prior art reference and an action on the merits follows.

#### **Drawings**

New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application as noted by the Notice of Draftsperson's Patent Drawing Review (4/6/05). Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

#### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-3, 18, 55, 57 and 59 are rejected under 35 U.S.C. 102(a) as being anticipated by Kopras et al. (6,443,675) as noted in the previous Office Action. With regard to claims 1-3, Kopras discloses a power tool/router comprising a base (56); a motor housing (22) supported by the base and defining a central axis (figs. 1, 2) and an air outlet (42, 44), the air outlet having

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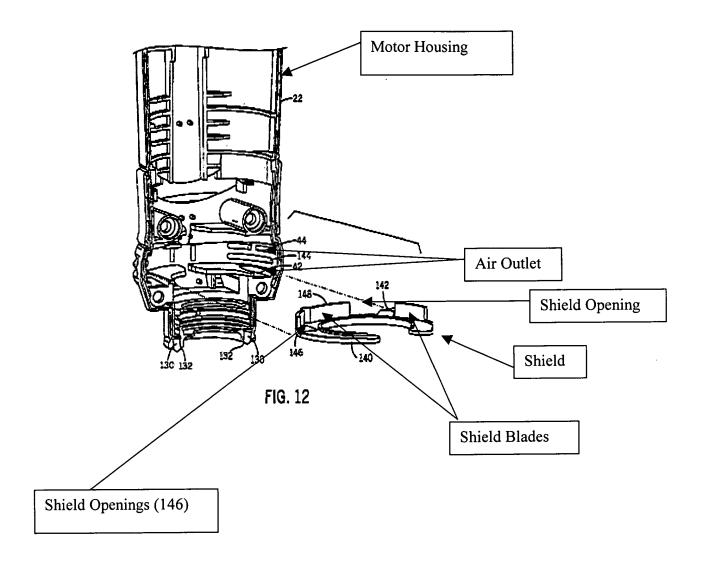
portions thereof positioned on each of two opposing sides of the central axis, air passing from the motor housing through the air outlet; a motor (col. 8, lines 26-27) supported by the motor housing (22); and a shield (140) removably connectable to the motor housing (col. 19, lines 26-31) in a position to at least partially cover the portions of the air outlet (42, 44) on the two opposing sides of the central axis (fig. 12; col. 19, lines 42-56), the shield (140) when connected to the motor housing (22) allowing flow through the air outlet (42, 44) during operation of the power tool/router (20).

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Further Kopras discloses the shield connectable to the motor housing, the shield being positionable at least partially outside the motor housing (fig. 1). Examiner notes the shield to have a tab (142) which protrudes outside the motor housing (22) so as to rotate the shield within the motor housing (22) to at least partially cover portions of the air outlet (42, 44).

As to the recitation, "removably connectable" (clm. 1) Examiner notes the shield (140) is not fixed within the housing (22) as clear by the movement of the shield to open/close the air outlets (42, 44) and shield (140) able to be removed from the housing because it is not fixed by any structure within the housing, i.e. pins, nail, fastener, clamp, screw, etc...

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With regard to claim 18, Kopras discloses the shield (140) to be substantially circular (fig. 12).

With regard to claim 55, Kopras discloses wherein the shield is substantially circular (fig. 12).

With regard to claim 57, Kopras discloses the shield (140) includes a plurality of blades (148) spaced apart from one another to define openings therebetween (fig. 12).

With regard to claim 59, Kopras discloses a base, motor housing (22) being supported by the base, the central axis of the motor housing being generally vertical (fig. 1) and a handle (24) connected to at least one of the base and the motor housing (fig. 1), the handle (24) defining a handle axis and having a grip portion (fig. 1) extending generally along the handle axis, the handle axis being non-parallel to the central axis. Examiner notes the handle (24) to be positioned at an angle relative to the central vertical axis of the motor housing (22) and the handle having a gripping portion along the handle, because the handle is positioned at a non-vertical angle relative to the central axis, the handle axis is thus non-parallel to the central axis.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 19 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kopras et al (6,443,675) alone. Kopras does not explicitly disclose the shield made of plastic/nylon. It would have been obvious at the time of the invention to one having ordinary skill in the art to construct Kopras' shield of plastic/nylon because it is well within the general skill of a worker within the art to select a known material on the basis of its suitability for the intended use as obvious mechanical efficiency. *In re Leshin*, 125 USPQ 416.

Furthermore, Kopras teaches the motor housing and various components to be made of plastics and other various materials (col. 8, lines 15-17; col. 11, lines 37-39). Accordingly, it

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would have been obvious at the time of the invention to one having ordinary skill in the art to construct the shield of plastic/nylon based on it's desirable (strength) characteristics for use in the power tool/router construction.

#### Allowable Subject Matter

Claim 58 is allowed.

Claims 4-17, 21, 41-54 and 56 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: the prior art of record does not disclose or fairly suggest a power tool/router comprising a shield connectable to the motor housing, wherein the motor housing includes a plurality of housing blades spaced apart from one another to define openings therebetween in combination with the rest of the claimed limitations as set forth in claims 4, 6, 8, 12, 13, 17, 41, 43, 45, 49, 50 and 54.

Additionally, the prior art of record does not disclose or fairly suggest wherein the shield includes a plurality of radially extending shield blades in combination with the rest of the claimed limitations as set forth in claims 14 and 51.

The prior art of record does not disclose or fairly suggest the shield being operable to inhibit movement of debris through the air outlet and into the motor housing when the router is in the inverted position in combination with the rest of the claimed limitations as set forth in claims 21 and 56.

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Further the prior art of record does not disclose or fairly suggest a flexible shield connectable to the base in a position to cover the open end and to allow access to the depth adjustment mechanism through the open end in combination with the rest of the claimed limitations as set forth in claim 58.

As noted in the previous Office Action, The prior art of record, Kopras discloses a power tool/router (fig. 1) comprising a base (56) for adjusting the depth of a rotary cutting tool (20), a motor (col. 8, lines 26-27) enclosed in a motor housing (22), a motor shaft attached to the motor and a cutting bit (col. 10, line 32), a removable shield (140) mounted in the motor housing (22; col. 6. lines 32-35) to open and close air outlets (42, 44) of the motor housing (22), wherein a portion of the shield (140) is positioned partially outside(fig. 1) the motor housing so as to rotate the shield to at least partially cover the air outlet (42, 44). Kopras does not disclose wherein the motor housing includes a plurality of housing blades spaced apart from one another to define openings therebetween. Kopras is silent to a plurality of housing blades defining openings therebetween. Instead Kopras discloses a shield (140) that acts to direct/channel and exhaust air via openings (146) and vertical blades (148) such that the shield is rotatable to open or close the housing air openings (42, 44). Additionally, Kopras does not disclose a flexible shield connectable to the base in a position to cover the open end and to allow access to the depth adjustment mechanism through the open end. Kopras is silent to any flexible shield. Kopras also fails to disclose or suggest a plurality of radially extending shield blades. Instead Kopras discloses shield blades (148) extending around or about the circumference (fig. 12) of the circular shield (140). To rearrange, Kopras such that the blades (148) extend about the radius of Application/Control Number: 10/644,720 Page 8

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the shield (140) would inhibit operation of Kopras, thus there is no motivation within the reference to rearrange the shield blades to a radial construction.

Kopras does not disclose or fairly suggest the shield being operable to inhibit movement of debris through the air outlet and into the motor housing when the router is in the inverted position. Although Kopras' construction is such that the shield is above the air outlet (42) when the router is in an upright orientation and below the air outlet (42) when the router is in an inverted position, Kopras does not disclose the shield being operable to inhibit movement of debris through the air outlet and into the motor housing when the router is in the inverted position. Instead in an inverted orientation, Kopras shield would not inhibit movement of debris through the air outlet and into the motor housing and would actually allow debris to fall due to gravity to the motor housing via the ring opening of the shield (140). Accordingly, Kopras teaches away from the claimed invention as set forth in claims 21 and 56.

Accordingly, Kopras fails to anticipate or render obvious the claimed invention as set forth in claims 4, 6, 8, 12-14, 17, 21, 41, 43, 45, 49, 50, 51, 54, 56 and 58.

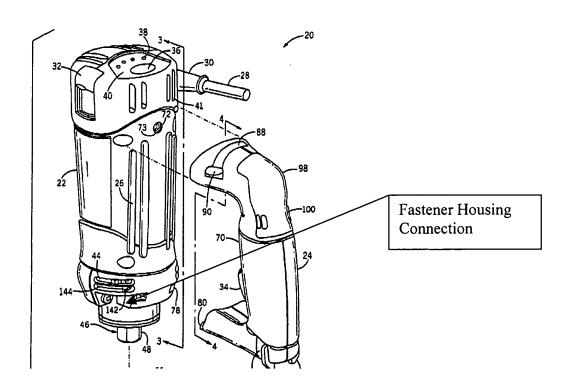
Neither the prior art of record nor any combination thereof discloses the claimed invention as set forth in claims 4, 6, 8, 12-14, 17, 21, 41, 43, 45, 49, 50, 51, 54, 56 and 58.

Therefore, claims 4-17, 21, 41-54, 56 and 58 contain allowable subject matter over the prior art of record.

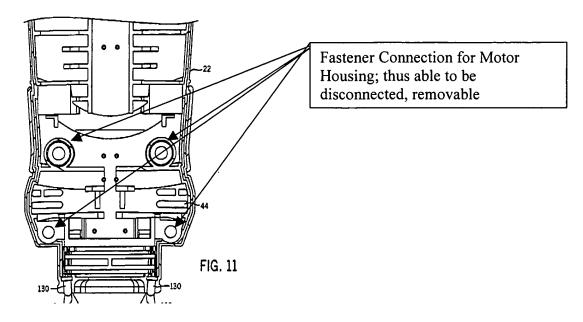
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#### Response to Arguments

Applicant's arguments, filed Mach 29, 2006, with respect to claims 1 and 2 have been fully considered and are not deemed persuasive. Accordingly the rejection regarding claims 1 and 2 stands. Applicant argues that the prior art, Kopras fails to teach or disclose a shield *removably connectable* to the motor housing. This argument however is not deemed persuasive. The prior art, Kopras clearly teaches a shield (140) that is not fixed within the motor housing and is able to be rotated/moved to open/close/partially close the air outlets/vents. Further, Kopras teaches connection of the shield to the motor housing without any fastening means or permanent connection, i.e. welding, thus removably connected. Examiner further notes the housing 22 connectable via a fastener (figs. 2, 11) this able to be disconnected and because the shield (140) is not permanently fixed to the housing (22) it is therefore removably connected. Accordingly claims 1 and 2 do not patentably distinguish over the prior art of record, Kopras.



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Applicant's argument regarding claims 3, also are not deemed persuasive. Applicant argues that Kopras et al. Fails to disclose "a shield connectable to the motor housing in a position to at least partially cover the portions of the air outlet on the two opposing sides of the central axis, the shield, when connected to the motor housing, allowing flow through the air outlet during operation of the router". Applicant argues that the prior art, Kopras teaches that during operation of the tool/router (20) the cover/shield (140) may be positioned such that the flow of air through the vents may be completely blocked. Examiner agrees, the prior art teaches the capability to completely close the vents/air outlet, however the claims as written state, "at least partially cover the air outlet". Completely closing the vents/air outlet meets the limitation of "at least partially cover", in that to completely close the air outlet, they too are at the very least, "at least partially covered/closed. Furthermore, Examiner notes, Kopras' shield (140) capable of being positioned, i.e. rotated via an extending tap (142) protruding out of the motor housing (22) such that the shield blades (148) open, cover/close or partially cover the air vents/outlet (42, 44). Accordingly Applicant's arguments are not deemed persuasive.

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#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shelley Self whose telephone number is (571) 272-4524. The examiner can normally be reached Mon-Fri from 8:30am to 5:00pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, Derris Banks can be reached at (571) 272-4419. The fax phone numbers for the organization where this application or proceeding is assigned are (571) 273-8300 for regular and After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on accessing the Private

PAIR system contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SSelf

May 15, 2006

DERRIS H. BANKS SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3700